



# California Regional Water Quality Control Board

## Los Angeles Region



Linda S. Adams  
Agency Secretary

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

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Arnold Schwarzenegger  
Governor

June 13, 2006

Mr. Michael Martin  
Northrop Grumman Systems Corporation  
One Hornet Way M/S PA 13/W5  
El Segundo, CA 90245

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED  
CLAIM NO. 7002 2030 0006 2095 2514

Dear Mr. Martin:

**GENERAL WASTE DISCHARGE REQUIREMENTS FOR POTASSIUM PERMANGANATE SOLUTION INJECTIONS AT PETROLEUM HYDROCARBON FUEL AND/OR VOLATILE ORGANIC COMPOUND IMPACTED SITES – FORMER NORTHROP GRUMMAN EAST COMPLEX FACILITY (CRENSHAW PARKING LOT AREA - PILOT PROJECT) AT ONE NORTHROP AVENUE, HAWTHORNE, CALIFORNIA (FILE NO. 06-107, CI NO. 9104)**

We have completed our review of your application for coverage under General Waste Discharge Requirements for the injection of potassium permanganate solution at the site referenced above in Hawthorne, California.

Northrop Grumman Systems Corporation (hereinafter Discharger) is conducting the soil and groundwater cleanup activities at a former facility commonly known as the Northrop East Complex Facility (Site) located at One Northrop Avenue in Hawthorne, California (Figure 1) (Latitude: 118.3293W, Longitude: 33.9214N). The business activities at the Site involved aircraft manufacturing operations from 1940 to approximately 2000. The industrial activities at the Site included the use of a variety of products such as fuels (including gasoline, diesel, and jet fuel), solvents including isopropanol, 1,1,1-trichloroethane (TCA) and tetrachloroethene (PCE), acid sludge, fluorescent dye and hydraulic oil. Site investigations indicate that soil and groundwater have been contaminated with volatile organic compounds (VOCs). The VOCs identified in the groundwater include total petroleum hydrocarbon as gasoline (TPHg) TPH as diesel (TPHd), PCE, trichloroethene (TCE), cis-1,2-dichloroethene (DCE), 1,1-dichloroethane, 1,1-DCE, chloroform, carbon tetrachloride, and benzene. However, TPHg and TPHd have not been detected in the soil and groundwater at the specific pilot test area.

The Site was granted Resource Conservation and Recovery Act (RCRA) Interim Status by the State of California Health and Welfare Agency, Department of Health Services (DHS) in 1981. The Department of Toxic Substances Control (DTSC) has been designated as the sole oversight agency for RCRA Correction Action. On August 19, 2004, the DTSC approved the Pilot study for the Site. The application for Report of Waste Discharge (RoWD) was submitted on November 21, 2005, however the application fee for the RoWD was not received until June 6, 2006. In the proposed pilot study, Blasland, Bouck & Lee, Inc., on behalf of the Discharger, proposes potassium permanganate injection at two injection wells (PDC-IP1 and PDC-IP2 (Figures 2 & 3)).

**California Environmental Protection Agency**



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Groundwater depth ranges between 48 through 51 feet bgs in monitoring wells installed at the Site. Groundwater flow direction is to the south-southeast at a hydraulic gradient of approximately 0.062.

Any potential adverse water quality impacts that may result shall be localized, of short-term duration, and shall not impact any existing or prospective uses of groundwater.

Regional Board staff have determined that the proposed discharge meets the conditions specified in Order No. R4-2005-0030, "*General Waste Discharge Requirements for Groundwater Remediation at Petroleum Hydrocarbon Fuel and/or Volatile Organic Compound Impacted Sites*," adopted by this Regional Board on May 5, 2005.

Enclosed are your Waste Discharge Requirements, consisting of Regional Board Order No. R4-2005-0030 (Series No. 049) and Monitoring and Reporting Program No. CI-9104 and Standard Provisions.

The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of this enrollment (June 13, 2006) under Regional Board Order No. R4-2005-0030. All monitoring reports shall be sent to the Regional Board, ATTN: Information Technology Unit. Also, a copy of the monitoring report shall be sent to DTSC, ATTN: Ms. Maria Teresa M. Fabella.

When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to Compliance File No. CI-9104, which will assure that the reports are directed to the appropriate file and staff. Do not combine other reports with your monitoring reports. Submit each type of report as a separate document.

We are sending a copy of Order No. R4-2005-0030 only to the applicant. A copy of the Order will be furnished to anyone who requests it.

If you have any questions, please contact Mr. Orlando H. Gonzalez at (213) 620-2267 or Mr. Rodney Nelson at (213) 620-6119.

Sincerely,

Jonathan Bishop  
Executive Officer

Enclosures:

1. Board Order No. R4-2005-0030
2. Standard Provision Applicable to Waste Discharge Requirement
3. Monitoring and Reporting Program No. CI-9104

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cc: Mr. Robert Sams, Office of Chief Counsel, State Water Resources Control Board  
Ms. Vera Melnyk-Vecchio, State Department of Health Services, Drinking Water Field  
Operations Branch  
Ms. Yvonne Shanks, State Water Resources Control Board, UST Fund  
Ms. Maria Teresa M. Fabella, DTSC  
Mr. Ted Johnson, Water Replenishment District of Southern California  
Mr. Mark Stewart, Central Basin Watermaster, California Department of Water  
Resources  
Mr. Steven R. Briggs, Vice President and Deputy, Air Combat System, Northrop  
Grumman System Corporation  
Mr. Michael T. Martin, Northrop Grumman Systems Corporation  
Mr. Steve Fry, Project Engineer, Blasland, Bouck & Lee, Inc.  
Mr. Paris Hajali, Vice President, Blasland, Bouck & Lee, Inc.

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